



# The Raleigh Amateur Radio Society's **EXCITER**

## GET INVOLVED

- RARS General Membership meeting: Second Tuesday of the month.
- The RARS net meets every night except Saturday @ 8 p.m. on 146.640.
- The RARS Technical & Trader's net: Saturdays @ 8:00 PM on 146.64.
- RARS meets for a monthly dinner on the First Tuesday of each month.



## PUBLIC SERICE EVENTS

Interested in helping? Visit  
<https://www.rars.org/public-service.php>

frequently for our 2019  
 ham public service  
 schedule.

## RARS General Meeting

**Topic:** Field Day

**By:** Bob Starkenburg, W4TTX

**Date:** June 11,2019

**Time:** Meeting at 7:30PM

*Informal gathering and refreshments from 7 - 7:30 p.m.*

**Where:** Ridge Road Baptist Church. 2011 Ridge Rd., Raleigh

**New HAM meeting,** 6:00 p.m. before member meeting

Tadd Torborg, KA2DEW, New Ham Meeting Coordinator

[Click here for more information.](#)

## Presidents Comments

By Carl Davis, W8WZ

I just returned from the Dayton Hamvention in Xenia, Ohio so thought that I would write about that for this month's President's article. I know that fellow RARS members, Karl W4CHX, Tadd KA2DEW and Al N4EII were also at Hamvention. Since RARS has more than 400 members it is likely that other members were there too but our paths did not cross.

The Dayton Hamvention is also the ARRL's national convention. On Thursday night was the ARRL Banquet where our new CEO Howard Michel WB2ITX offered the keynote address. I did not attend this event as the CW Operator's club dinner was at the same time and I chose to attend that instead. However, a friend of mine (W9HT) did attend the League's banquet and said our new CEO offered a very interesting and encouraging talk about how our ARRL

[Continued on page 4](#)

## RARS Officers

### PRESIDENT

Carl Davis  
W8WZ  
773.949.5243  
[w8wz@aol.com](mailto:w8wz@aol.com)

### VICE PRESIDENT

Tom Lewis  
N4TL  
[N4TL2@yahoo.com](mailto:N4TL2@yahoo.com)

### SECRETARY

Tara Goodwin  
W4TSW  
919.616.0211  
[taraskirby@gmail.com](mailto:taraskirby@gmail.com)

### TREASURER

Greg Seamster  
KE4PAX  
919.859.0029  
[KE4PAX@arrl.net](mailto:KE4PAX@arrl.net)



## The Raleigh Amateur Radio Society

The Raleigh Amateur Radio Society, Inc. (RARS) was founded in 1969 and continues to serve and support the amateur radio community in the greater Triangle area. In 1999, the society incorporated a new RARS and obtained 501(c)(3) non-profit tax status.

The objectives of the club are to promote worldwide friendship through amateur radio; to be of public service by providing radio communications in times of disaster, emergency, or civic needs; to educate members in radio technique, and to provide training classes to assist in obtaining amateur radio licenses.

Anyone interested in amateur radio is eligible to apply for membership. Dues for regular licensed amateurs are \$18 per year (from July 1 through June 30). Additional immediate family members pay \$5 each per year. Dues for licensed amateurs older than 59 or younger than 16 are \$12 per year. Dues for non-licensed associate members are \$9 per year. Applications for membership may be obtained from the treasurer or on the RARS website ([www.rars.org](http://www.rars.org)).

## *Exciter*

The Exciter is the official newsletter of the Raleigh Amateur Radio Society. It appears each month as a PDF on the RARS website at [www.rars.org](http://www.rars.org). Members receive email notification when the latest version is available. Please provide your email address to the Treasurer.

The Exciter welcomes articles, advertisements, and other contributions. To submit a piece to the newsletter, please contact the Editor. The Editor reserves the right to edit any and all pieces. The submission deadline for each month's Exciter is the Saturday that is ten days before the general meeting. All submissions must be final. Drafts are not accepted.

The views expressed in the Exciter are those of the individual authors and do not necessarily reflect the views of the Editor or RARS.

Tom Lewis, N4TL, editor ([editor@rars.org](mailto:editor@rars.org))

## For Your Information

### RARS General Meeting

Date: Second Tuesday of each month

Location: Ridge Road Baptist Church 2011  
Ridge Road Raleigh, NC, 27607

Time: People begin arriving at 7 p.m. The  
meeting officially begins at 7:30 p.m.

### RARS Monthly Dinner

All members and guests are welcome to the monthly (first Tuesday) RARS Supper, 6:30PM, at the Golden Corral Restaurant, 6129 Glenwood Ave., Raleigh. Informal and Dutch, just bring your appetite and best rag to chew. 73, Chuck, K4HF

### RARS Repeaters in Raleigh

146.640 and 444.525

Join us for the nightly RARS net at 8 p.m. on the 146.640 repeater. All hams holding a Technician class license or higher are invited to check in. We welcome both RARS and non-RARS members to the net.

There is a net Listing on the RARS website click here. <https://www.rars.org/nets.php>

### VE Testing

The RARS VEs will accept walk-in testing in February, May, August and December at 5:30PM, prior to RARS membership meetings at Ridge Road Baptist Church; the RARSfest in April; the Cary Swapfest in July; the JARS-Fest in November; and following RARS license classes. Please bring a photo ID, your original and a copy of your current license, your \$14 exam fee, and any valid CSCEs that prove passing elements beyond that of your current license. Visit <https://www.rars.org> for more information.

## May 2019

### RARS Net Monthly Summary

Checkins: 559

Traffic Brought/Passed: 9/9

Minutes: 1205

Sessions: 31

Julie Royster KT4JR issued a First Contact Certificate to Samuel Robinson KN4RWI! We are happy that his first radio contact was on the RARS Net and hope to hear him often.

Virginia Enzor NC4VA

RARS Net Manager



## President's Message continued

staff is working to improve efficiency and offer ARRL members even better value.

Many ham radio manufacturers announce their new product offerings at Dayton and this year was no exception. Here are a few that caught my eye.

1. Ten Tec is coming back into the ham radio market place with an Omni 7 Plus that is currently in production and will be for sale soon. They had a prototype of the radio on display. They are also selling the Eagle and Argonaut (QRP) again and their service department is again servicing any Ten Tec rig. I note that their webpage does not list these new changes yet but they were there in Ohio announcing them in person.
2. Not to be outdone, Elecraft unveiled their soon to be released K4 which is a direct sampling SDR that comes in three versions, one of which is a double conversion superhet designed to give all the advantages of SDR along with the benefits of a superhet for RF heavy events like Field day. I did not catch when that one will be in the market place, but there was a very long line to see the K4 they had on display and they are taking preorders.
3. The Yaesu FTDX 101 was available. I played with the display model a bit and was surprised that there didn't seem to be much of a line to see that new offering from Yaesu. The thing that struck me about that radio was its many dedicated knobs and buttons. For a state of the art rig it is not menu heavy. So for the operator who still prefers labeled knobs and buttons instead of menus with multi-function knobs, this radio should have a lot of appeal. The Yaesu booth's line was really fueled by folks getting the free hats they were offering.
4. The longest line was at Icom where they were selling their new SDR VHF/UHF/Microwave rig the IC9700 like hotcakes. The price tag at Dayton was \$1,699.00. Lots of sat ops and hams who do VHF/UHF weak signal work were very excited about that. They also seemed to be selling many IC7300s at Dayton also.
5. Some changes have been made at Vibroplex. Historically the red colored plastic finger pieces for Deluxe keys have come in either a dark red or a cherry red. They have switched between those two shades of red over the years, most recently using the cherry red. Now they have moved back to a dark red but the pieces are translucent instead of opaque. This subtle difference is hard to see in online pictures but can be seen easily in person. They no longer offer the opaque pieces due to changes in their supply chain. So now Vibroplex keys can have any one of three red variants, dark red opaque, cherry red opaque or dark red translucent. They also changed the color of their hats from red with white letters to cream with red letters. While there they took my picture while I was commenting on the color changes and shared it on their Facebook feed.



Carl, W8WZ at the Vibroplex display

## President's Message continued

Of course the ham radio celebrities like Bob Heil, Gordon West and the ARRL staff were there as were ham radio podcasters and all of the different clubs like QCWA, Ten Ten, FISTS, and many, many more offering great information and good fellowship at their booths. The North Carolina section was well represented by our Roanoke Division Director Bud W2RU and our Section Manager Karl W4CHX.

There was a very interesting display from a group of scientists who have been using ham radio to study the ionosphere. The group is called HamSci and is part of the citizen scientist movement. You may recall that they asked for logs for people who participated in a special QSO party they set up during the recent total eclipse. They had the data that was learned from that effort on display at their booth. They said it was very helpful. They are presently working on using the data collected on the Reverse Beacon Network to study propagation. This is a great example of how scientists are using our hobby for the advancement of science. More information is on their webpage [www.hamscli.org](http://www.hamscli.org)

What many people may not know is that the Dayton Hamvention is also a fashion show with the latest accessories for the stylish ham radio operator on display. My friend Josh W9HT was kind enough to let me share this picture of him in his new hat with you.



73,

Carl W8WZ

Josh W9HT



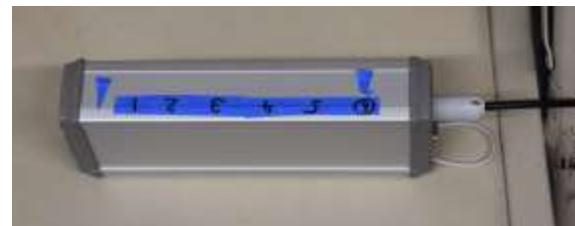
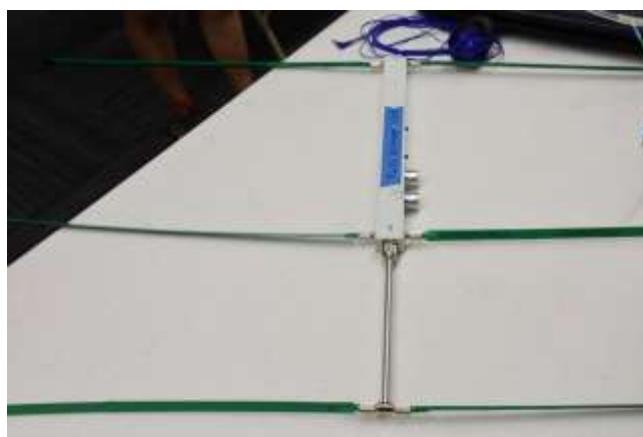
## RARS May Membership Meeting

Ruth Bromer, WB4QZG and Joe Huberman, K5JGH gave the May meeting presentation. It was about Amateur radio direction finding (ARDF, also known as radio orienteering).

Five transmitters are hidden. Usually in a wooded area. Then each participant is given a map. They have to find the five transmitters as quickly as possible, using radio direction finding equipment.

Ruth is holding up a two meter receiver and antenna that is used for direction finding.

Ruth Bromer, WB4QZG and Joe Huberman, K5JGH



One of the transmitters that is used.

The two meter receiver and antenna.

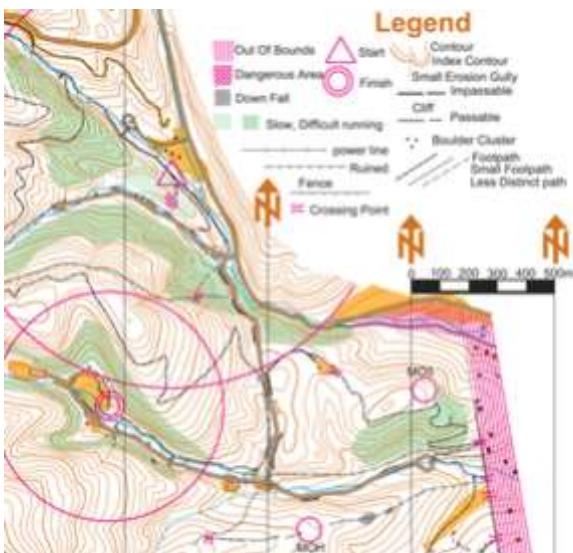
## RARS May Membership Meeting continued



Carl W8WZ trying out the two meter receiver.



A transmitter and flag



A typical map that is used

Each transmitter emits a signal in [Morse code](#) by which it is easily identifiable to the competitors. The transmitters automatically transmit one after another in a repeating cycle. Depending on entry classification, a competitor will attempt to locate as many as three, four, or all five of the transmitters in the woods, and then travel to the finish line in the shortest possible time. Competitors start at staggered intervals, are individually timed, and are expected to perform all radio direction finding and navigation skills on their own. Standings are determined first by the number of transmitters found, then by shortest time on course. Competitors who take longer than the specified time limit to finish may be disqualified.

## Backwoods Orienteering Klub

**Have Fun in the Woods Orienteering... with the best maps in the world**

Backwoods Orienteering Klub, founded November 15, 1978 sponsors events and teaches orienteering in the North Carolina piedmont, around Raleigh, NC.

We invite you to try orienteering with us. Everyone is welcome at all our events. We always offer beginning, intermediate, advanced and expert courses (routes through the woods) at every *Regular* event.

The above information was copied from their website, <https://backwoodsok.org/>

There is a lot happening in the Raleigh area with this sport. Check out the schedule here  
<https://backwoodsok.org/schedule>

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## Radio Direction Finding competitors Dinner

All RARS Members, Friends and Ham Radio Operators are invited to have dinner at 6:30 PM on August 1<sup>st</sup> at the Cracker Barrel located at 955 Airport Blvd Morrisville, NC with Radio Direction Finding competitors who will be in town for the Radio Direction Finding World Championship, which is being hosted in Raleigh.

Members of the RDF group presented at our most recent RARS meeting. People from all over the world will be coming to Raleigh for this event so please come to the Cracker Barrel at 6:30PM on August 1<sup>ST</sup>, meet these international radio enthusiasts, and welcome them to our city.

73,  
Carl W8WZ

## May Membership Meeting, Door Prize winners



Left to Right; Mike Wolfe, K4MPW; Richard Kroeger, N1FUA;  
Bill Mars, AK4BL; Mike Butler, K4MBX; Mike Thurman, KB7NLA;  
Dick Martin, WW4NC; Charles Strickland, WA4OSS; Ronnie Lee, KN4UFL

## Future RARS Meeting Topics

Titles, topics, and speakers subject to change.

6/11/2019	Field Day	Bob Starkenburg, W4TTX
7/9/2019	80 foot tower installation with 40/30 Optibeam	Dave Wood, W4EJ
8/13/2019	What makes FT8 work?	Chuck Till, K4RGN
9/10/2019	Open Source Design Tools for Amateur Radio including KiCAD	Dan Marks, KW4TI
10/8/2019	RARS Officers nominations RARS Auction	Election committee & Carl, W8WZ

*New HAM meeting, 6:00 p.m. before the member meeting*

*Tadd Torborg, KA2DEW, New Ham meeting Coordinator*

*The New Hams meeting is held every month before the regular RARS meeting. We'll try to start by 6pm. We try to address topics in a manner that will be of help*



In May we got new hams on 40m using a cheap antenna and old radio. Attendees talked to Alabama, Ohio, and Mississippi



## RARS Birthdays

Charles	KI4DCR	06/03
Daniel	KD4KXI	06/05
Gwen	KF4EUT	06/05
Lisa	KM4AMW	06/06
Mark	KM4JRH	06/06
Bruce	KI4PAC	06/07
Rick	N4VQT	06/07
Sam Wells		06/09
Matt	KN4MIO	06/11
Charles	NZ0I	06/11
Ken	KN4GUS	06/11
Kevin	KN4OQX	06/12
Robert Lahey		06/13
Ronald Brobst Sr		06/17

Wade	KK4UGY	06/19
William	W4AK	06/21
Bobbie	KD4ZVW	06/22
Patrick	KM4QDZ	06/22
Lanny	K1LEC	06/24
Kelly	KD4EWG	06/24
Mike	K4MBX	06/30

## New RARS Members

Andy Anderson	AA0WX
Carmen Centeno-Calero	WP4QER

*Everyone is welcome!*



11:30 AM every Thursday a group of Hams get together for Lunch at Taco Bell. The address is 7036 E Hwy 64 Knightdale, 27545. 1.2 miles east of I540.

# Time to Renew!

Please help us continue to provide quality programs, activities, and events for our club members. One of the ways we do this is through the RARS annual dues. The membership year is July 1 - June 30, so it's time to renew!

## Dues

Regular \$18

Reduced (under 12 or over 60) \$12

Associate (not licensed) \$9

Each additional family member \$5

\*You have the option to renew for multiple years!

There are a number of ways to renew your dues.

- 1) Pay at a RARS meeting.
- 2) Mail your dues to the RARS Treasurer at the following address:

RARS  
c/o Greg Seamster  
1405 Leanne Court  
Raleigh, NC 27606

- 3) Pay online at <http://www.rars.org/joinrars.php>. Online payments are made via PayPal to [Raleigh\\_AR5@earthlink.net](mailto:Raleigh_AR5@earthlink.net).

Note: A PayPal account is not required to make a credit card payment.

If there are no data changes to your membership (address, call, license class, etc.), you do not need to fill out a renewal form. The membership form can be downloaded in a PDF format at <http://www.rars.org/joinrars.php>.

Note: You can view your membership status and update data at <http://www.rars.org/only.php>.

Thanks! We could not do it without you.

Thanks, Greg Seamster KE4PAX

# Become an Amateur Radio Operator



## The Raleigh Amateur Radio Society is offering Technician Level Amateur Radio Licensing Classes

at Sanderson High School - 5500 Dixon Dr, Raleigh, NC 27609

### Class Schedule:

Week 1 - Wednesday, 2 October 2019 7:00 PM to 9:00 PM

Pre-Class Reading: Chapters 1 & 2 of The ARRL Ham Radio License Manual

Week 2 – Wednesday, 9 October 2019 7:00 PM to 9:00 PM

Pre-Class Reading: Chapters 3 & 4 of The ARRL Ham Radio License Manual

Week 3 – Wednesday, 16 October 2019 7:00 PM to 9:00 PM

Pre-Class Reading: Chapters 5 & 6 of The ARRL Ham Radio License Manual

Week 4 – Wednesday, 23 October 2019 7:00 PM to 9:00 PM

Pre-Class Reading Chapters 7 & 8 of The ARRL Ham Radio License Manual

Week 5 – Wednesday, 30 October 2019 7:00 PM to 9:00 PM

Pre-Class Reading Chapter 9 of The ARRL Ham Radio License Manual

Week 6 – Wednesday, 6 November 2019 7:00 PM to 9:00 PM

Test Day. Amateur Radio Licensing Tests Administered

Testing fee of \$14 due in cash or check at time of test. Students must bring photo ID, and have an FRN or Social Security Number and bring a black ink pen and #2 pencil. Students may bring a calculator that does not have a memory (or has the memory cleared by a test administrator). The use of smart phones or tablets as calculators is not allowed.

Capacity is limited to 20 students and registration is required. Due to limited seating no walk-ins will be accepted. Students must come with the textbook ***ARRL Ham Radio License Manual, 4th edition,***

ISBN: 978-1-62595-087-1 which can be purchased at this link: <http://www.arrl.org/ham-radio-license-manual>

To register for the class please visit: [https://cs.wcpss.net/index.php?route=llcoursecontroller/course\\_detail&course\\_id=1714&cat=0](https://cs.wcpss.net/index.php?route=llcoursecontroller/course_detail&course_id=1714&cat=0)

The non-refundable cost for the course is \$30 payable in cash or check made payable to RARS at the first session. For students over age 18 there is an additional fee of \$14 for the license test payable on the day of the exam.

To ask questions or register for the class please e-mail RARS Education Director Carl Davis at [w8wz@aol.com](mailto:w8wz@aol.com)



# Future Hamfests

A full list of Hamfests can be found at the  
[ARRL website.](#)

## **07/06/2019 | 34th Annual Firecracker Hamfest**

**Location:** Salisbury, NC

**Type:** ARRL Hamfest

**Sponsor:** Rowan Amateur Radio Society

**Website:** <http://www.rowanars.com/events>

## **07/20/2019 | Mid-Summer SWAPFEST**

**Location:** Cary, NC

**Type:** ARRL Hamfest

**Sponsor:** Cary Amateur Radio Club

**Website:** <http://www.qsl.net/n4nc>

## **07/27/2019 | WCARS Hamfest 2019**

**Location:** Waynesville, NC

**Type:** ARRL Hamfest

**Sponsor:** Western Carolina Amateur Radio Society

**Website:** <http://www.wcars.org/wcarshamfest.htm>

## **08/10/2019 | 21st Annual Cape Fear Amateur Radio Society Swapfest**

**Location:** Fayetteville, NC

**Type:** ARRL Hamfest

**Sponsor:** Cape Fear Amateur Radio Society

**Website:** <http://cfarsnc.org>

## **08/30/2019 | Shelby Hamfest**

**Location:** Shelby, NC

**Type:** ARRL Hamfest

**Sponsor:** Shelby Amateur Radio Club

**Website:** <http://shelbyhamfest.org>

## **09/20/2019 | W4DXCC SEDCO**

**Location:** Pigeon Forge, TN

**Type:** DX and Contest Convention

**Sponsor:** SEDCO

**Website:** <http://w4dxcc.com/>

## How to print a copy of your FCC License by Jim, KV4SJ

To access an official copy of your license:

1. Go to: <https://wireless2.fcc.gov/UlsEntry/licManager/login.jsp>
2. Log in with your FRN and password. (Also has links to find or get your FRN.)
3. Click on “Download Electronic Authorizations” in the links on the left hand side.
4. Select your call sign in the box labeled “My Authorizations” and click on the Add button to copy it into the “Authorizations to Download” box.
5. Click on the Download button to download an official copy of your license in PDF format.

This is the official version you need for your wallet card and to display in your station. The reference copy does not satisfy the legal requirements

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## The Blue Ridge Microwave Society (BRMS)

This group is to promote VHF/UHF and Microwave activity with emphasis on frequencies above 1 GHz. If you are interested, join the group (no dues involved). There are a number of us currently active on 70 cm, 23 cm, 6 cm, and 10 GHz. The purpose of our group is to promote more activity on the microwave bands. We plan to coordinate activity, help members with equipment issues and generate additional interest for beacons, etc.

Dr. Dennis Sweeney, WA4LPR (VA Tech) and I are interested in speaking to clubs about microwave operations too. Dennis is currently building a 10 GHz EME station that should be on the air soon. He has lots of technical knowledge as do others in the group. We also have access to microwave network analyzers.

<https://groups.io/g/BRMS>

73, Stan, K4RCA, FM06bq

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<https://www.rars.org>



## PRESS RELEASE FROM THE ASHEVILLE RADIO MUSEUM

**Radio Wizardry.** The Asheville Radio Museum will be open on Saturdays from 1 PM – 3 PM during June through August 2019. We welcome visits from hams, ham club groups and families with children – especially those interested in amateur radio and how radio waves were discovered and made useful. Dozens and dozens of ham and home radios on display, not to mention antique Morse code practice machines and a Morse recorder, a spark gap transmitter, World War II radios (Gibson Girl, B17 bomber, Nazi propaganda), Asheville's 1930s first police car radio, Philco's 1930s mystery remote control for console radios, a replica of Marconi's first receiver and much more!

Admission and parking are free. Directions are on [www.avlradiomuseum.org](http://www.avlradiomuseum.org) at the bottom of the home page. For group tours or additional information, please use the contact form found near the directions.

Not able to drive to Asheville? Take our smart phone tour of two dozen interesting items on display. Download the free app from the link at the top of our home page. Many other Asheville tours also available using this app.

An interesting visit is guaranteed for all!

Stuart Smolkin  
504-256-5796



## Memorial Day HAM Style

"Kenny Latchum, formerly (KE4BRW), had a fine Memorial Day cookout. He invited several RARS members and some friends and neighbors to join in.

He also asked me to bring the rig I used at the beach to demonstrate to his friends what it is we do as HAMs. So after dinner we set up in his driveway and went to work. Before the 146.640 RARS net, Carl (W8WZ) made contact with Rob, N4NM. A very nice discussion about Rob's adventures hiking the Appalachian Trail ensued, and we all got to ask him about the different aspects of his Boy Scout's trail adventures. I asked the non-HAMs if any of them would like to get on the air. Judy McClure, Kenny's mother-in-law immediately grabbed up the mic and started a QSO with Rob. It turns out that she has a nephew hiking the Camino de Santiago in Spain, and they talked about that for a bit. Although her husband, formerly AD4GX was a HAM, she had never been on the air. This was a first for her and she was quite excited. It might be noted that Kenny now holds the call AD4GX in honor of his father-in-law, who became a Silent Key several years ago.

Then we all checked into the 146.640 RARS net, in sequence. ... Mobile, on emergency power, W4. It was a bit humorous. The non-HAMs showed great interest and a good time was had by all. Thanks to Kenny for putting it all together.

- 73, KM4JRH clear-



Kenny's Mother-in-law, Judy



Memorial Day "QSO Party"

**FM Walkie-Talkie** just announced by Motorola, Inc., of Chicago, Ill., will be popular among law enforcement agencies, fire protection departments, forestry services, railroads, etc. It has 24 tubes and weighs 19 lbs. A tip-up loudspeaker broadcasts over the operator's shoulder or to nearby listeners. It has a range of from five to seven miles, depending upon altitude and presence of physical obstructions.



Motorola FM Walkie-Talkie, Dennis Keith, NC4DK, sent this picture to the exciter.

You can read about Motorola's fire FM portable two way radio used in 1943 at this website.

[https://www.motorolasolutions.com/en\\_us/about/company-overview/history/explore-motorola-heritage/first-fm-portable-two-way-radio.html](https://www.motorolasolutions.com/en_us/about/company-overview/history/explore-motorola-heritage/first-fm-portable-two-way-radio.html)

 **MITSUBISHI**  
INTERNATIONAL CORPORATION



OWNERS MANUAL

Early Mitsubishi Cell phone.

It was wired to a base control box.

# Interesting websites

## Stealth antennas

<https://www.hamfesters.org/main/wp-content/uploads/2012/07/Stealth-Antenna-Guide.pdf>

Nick England's, K4NYW, pictures taken at the Dayton/Xenia Hamfest - vintage equipment - May 2019

<http://www.virhistory.com/ham/dayton-19.htm>

Nick England's, K4NYW, pictures of the RARSfest 2019.

<http://www.virhistory.com/ham/rars-19.htm>

Lunar and Planetary Institute.

<https://www.lpi.usra.edu>

NASA explains the **Saros cycle** of the moon.

<https://eclipse.gsfc.nasa.gov/SEsaros/SEsaros.html>

# New Transceivers

**ELECRAFT K4**, Direct Sampling SDR. Announced at the Hamvention in Xenia, Ohio. \$4,000 for the base model.

<https://elecraft.com/products/k4-transceiver>

The KAT4 Antenna tuner is an option. There also is an optional dual superhet module for exceptional dynamic range.

**Yaesu FTDX101**, Hybrid SDR. \$4,000. Shipments have just started for this one.

<https://www.yaesu.com/indexVS.cfm?cmd=DisplayProducts&ProdCatID=102&encProdID=959169DE998192AB87295E90077D740D&DivisionID=65&isArchived=0>

According to the diagram on page 15 of the manual, the receiver is a super heterodyne with an IF frequency of 9MHz.

**ICOM IC-7610**, Direct Sampling SDR. \$3,100. This one has been shipping for months now.

<http://www.icomamerica.com/en/products/amateur/hf/7610/default.aspx>

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<https://www.rars.org>

## Public Service

There are Public Service Events that you can help with each month.

Click on this link and you can see what ones are coming up.

[www.rars.org/public-service.php](http://www.rars.org/public-service.php)

ARRL Public Service News.

<http://www.arrl.org/public-service>

Events you can signup for now:

### **2019 Duke Multiple Myeloma Bike Ride**

**June 15, 2019 - Saturday - Durham, NC**

This is a 25k, 50k, and 100k bike ride from the Duke campus through rural Durham and Orange Counties. This is a fund raising event for Multiple Myeloma research and Rest Stop and Ham SAGs will be needed.

\* Location: Duke University Bone Marrow Transplant Clinic, 2400 Pratt Street, Durham, NC

\* Ham Coordinator: John Stone (K3RHJ)

\* Website: [Annual Duke Multiple Myeloma Bike Ride](http://www.rars.org/public-service)

Top of Form

Bottom of Form

### **2019 Firecracker 100K and 50K Ride**

**July 4, 2019 - Thursday - Holly Springs, NC**

This is a 32 and 62 mile bike event that requires SAGS, as well as Hams assigned to Rest Stops. This event benefits the Greater Carolinas' Multiple Sclerosis (MS) Society and typically has 800+ riders.

\* Location: Carolina Brewing Company, 140 Thomas Mill Rd., Holly Springs, NC 27544

\* Ham Coordinator: John Stone (K3RHJ)

\* Website: [The 27th Annual July 4th Firecracker Ride](http://www.rars.org/public-service)

**TO VOLUNTEER, FILL OUT THE FORM AT [www.rars.org/public-service.php](http://www.rars.org/public-service.php)**

## RARS Classifieds

Copied from <https://www.rars.org/classifieds.php>

The items below were listed within the last 30 days on the RARS website.

### FS: Zenith Transoceanics

Posted May 28th, 2019 by: W4BOH

Contact: [infomet@embarqmail.com](mailto:infomet@embarqmail.com)

DFMA has FIVE BC radios for sale, including three Transoceanics, tube type.

Is anyone interested in them or aware of anyone who might be?

There are some missing knobs, but I think they are unmolested.

One is a Zenith Royal, smaller portable in leather case.

One is an EMUD Rekord Sr., fancy German tabletop multiband radio.

Email [infomet@embarqmail.com](mailto:infomet@embarqmail.com)

Phone 919 732 4711

Deals can be made!

Wilson

W4BOH

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### Misc Ham Radio Items

Posted May 27th, 2019 by: K4HF

Contact: [k4hf@arrl.net](mailto:k4hf@arrl.net)

1. Heath HD-1416A Code Practice Oscillator VG - \$5

2. Micronta AC Current Reader VG - \$15

3. EF Johnson HF Low Pass Filter VG - \$5

4. 1/2 G5RV, 51' long, 40 to 10 Mtrs FC - \$10

Contact me by e mail preferably or (919) 872-6555 Thanks, Chuck

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### Hustler 4BTV Trap Vertical Antenna with 17m and 30m add-on kits installed (six band) for sale - \$250 or best offer

Posted May 20th, 2019 by: KJ4WD

Contact: [cjponto@bellsouth.net](mailto:cjponto@bellsouth.net)

This is a self-supporting vertical that gives operation in the 10, 15, 17, 20, 30 and 40 meter bands. This antenna was designed to perform well in restricted space areas.

Accessories include:

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<https://www.rars.org>

Continued from the previous page

- stainless steel tilt base mounting plate,
- stainless steel radial plate,
- vertical feedline current choke,
- and all mounting hardware removed from original installation except for the radials and the ground mounted post that supported the antenna.

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### **Isolation/Voltage Changing Transformer for Real Men, 1500W**

Posted May 18th, 2019 by: W4BOH

Contact: [infomet@embarqmail.com](mailto:infomet@embarqmail.com)

Do you have a 120V generator and need 240?

Do you want to balance a 120V load on a 240V system?

Here's a quality German 110/220 transformer that is fine at 120/240.

UGLY on the outside, with surface rust, but fine on the inside.

HEAVY, maybe 40lb.

Located Hillsborough, can be delivered to Durhamfest.

\$50.

Wilson

[infomet@embarqmail.com](mailto:infomet@embarqmail.com)

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### **QSL CARDS FOR SALE**

Posted May 4th, 2019 by: N4DSF

Contact: [fosdicks5815@yahoo.com](mailto:fosdicks5815@yahoo.com)

Army Buddy's father-in-law was a WWII vet who saved his 300+ QSL cards from 1946 to 1989. Family wishes to sell. Contact me for further details.

Dave N4DSF.

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<https://www.rars.org>

# Minutes

## Raleigh Amateur Radio Society

### Board Members Meeting

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*Date | time* 02/19/2019 @ 7:02 pm | *Meeting called to order by* Carl Davis W8WZ

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#### In Attendance

---

11 Members

**Carl Davis - W8WZ**

**Alan Pitegoff - AB4OZ**

**Chuck Littlewood - K4HF**

**Richard Kroeger - N1FUA**

**Murray Merner - K4MHM**

**Tom Lewis - N4TL**

**Marty Young - W4MY**

**Greg Seamster - KE4PAX**

**Virginia Enzor - NC4VA**

**Joanne Mars - AA3N**

**Hank Montgomery - K4HM**

1 Visitor

**Mark Kilmer KM4JRH**

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#### Approval of Minutes

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Quorum present: November and January minutes approved.

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#### President Report-Carl W8WZ

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Minutes continued from the previous page

Present; no report to give

## Vice President Report/Exciter Report-Tom N4TL

Tom reports that the next member meeting presentation will be the RARSfest Presentation by Tara Goodwin W4TSW and also the RARS awards.

For The Exciter he is working on collecting information for the 50<sup>th</sup> anniversary of the Raleigh Amateur Radio Society edition and has had several great articles and information already sent to him.

## Treasurer's Report-Greg KE4PAX

Greg reported that we currently have 385 members and that the club is seeing transactions for the RARSfest event happening. ***For more detailed information regarding Greg's Treasurers report please contact KE4PAX***

## Secretary's Report -Tara W4TSW

Tara was not present but Carl (W8WZ) read a report stating that the January board minutes were sent out to the board for review and that the January member minutes had a saving issue and they were to be resent to Tom (N4TL) The Exciter.

## Directors Reports

**NC QSO Party Chair-Marty W4MY:** Marty reports that the upcoming weekend is the NCQSO Party and will be on Sunday Feb 24<sup>th</sup> from 10am-8pm; Saturday the 23<sup>rd</sup> is South Carolina QSO party. The two state committees have combined some awards, including the work all counties award, and they are not having the CAROLINA spelling bee this year, instead the special event will be "Chairman Challenge". This special event involves operators working both Committee Chairs, one on Saturday in SC and one on Sunday in NC, and submitting their logs to receive the bonus points and be entered in a drawing for a 200.00 prize. Joe and Liz White will be hosting a station during the NC QSO party as performed in the past.

There was a question by Chuck (K4HF) regarding RARS sponsoring the Chairman Challenge award and it was discussed that RARS already sponsors several awards and that the Chairman Challenge award is being sponsored by the Chairmen themselves.

Marty also reports that thanks to their new webmaster they have new automation on the website for updating and logging.

Minutes continued from the previous page

**Net Manager-Virginia NC4VA:** Virginia reports that the nets are going well. Tom (N4TL) asked if RARSfest volunteer needs were being announced and Virginia reported that Virginia (NC4VA), Tom (NTL), and Bob (NC1X) had been making announcements and Chuck (K4HF) suggested reaching out to the Chair Tara (W4TSW) to also jump on and make announcements.

**Public Information Officer-Tara W4TSW:** Tara wasn't present but Carl (W8WZ) read a report that stated all was going well and that the ARRL mentioned the RARS New Ham Tuesday classes but they gave the wrong dates.

**Education Director-Carl W8WZ:** Carl reported that they have dates with instructor but cannot get a locked down date with the chosen location. He has an ongoing list of perspective students for when the club has locked down the location and dates. Virginia (NC4VA) stated she will be doing a technician class and there was talk of combining her class with RARS students.

**Field Day Chair-Bob W4TTX:** Not Present, but Carl (W8WZ) stated that he has spoken to Bob and he is excited about the 2019 field day. The location has been confirmed at the Carroll Farm and they are discussing the layout. DJ's Event rentals are quoting him the tents and tables for the event. He is also getting quotes from Covington Caterers and the both portable toilets are reserved. He is looking forward to another fun Field Day event.

**FM Repeater Chair-Chuck W3WZN:** Not Present but Carl (W8WZ) Alan and Chuck visited the Bayleaf and RTP repeaters for monthly checks and there are repairs needed. At RTP the A.C. is out and he is reaching out to the appropriate team for repair help. At Bayleaf the following things were noted: Floor holes plugged, AC functioning well, Ne foam board around AC, seal under AC will need to be replaced due to moisture, UPS batteries were replaced, expect receipt, new neon bulbs were installed lightening resister system, and Franks UHF repeater was returned to the owner. The 2019 operational and capital budgets will be ready by March board meeting and the capital items to expect are the transmission line and antenna for fairgrounds .64 repeater, club controller for backup and sandbox programming, and riger climbs for FG and RTP.

There was discussion regarding batteries that still worked, but were replaced for PM, and the board as discussed and approved the selling of these batteries. There was also reoccurring discussion of having the insurance coverage the damage to the repeater.

Alan (AB4OZ) also discussed the need to find operators to monitor the repeaters for issues.

**RARSfest Chair-Tara W4TSW:** Tara was not present but Carl read a report stated all planning was going

Minutes continued from the previous page

well with the planning for the 2019 RARSfest. There was an issue with the website and new volunteers signing up but that has been taken care of by the Webmaster. She states that she does not foresee this not being a success as it has been in previous years. .

**Food Service Chair-Richard N1FUA:** Richard reports that the food service is going well and he has been receiving positive feedback on the snacks being served at the meetings. He had questions about the upcoming Birthday celebration that the board was able to answer.

**ARRL Liaison-Chuck K4HF** Chuck reminded the board that the ARRL has a new Roanoke Director and he is going to reach out to them about their RARSfest forum in April. He doesn't think we will be able to get anyone from the ARRL headquarters on a holiday weekend.

**Webmaster-Hank K4HM:** Hank had questions about a request he had received which would allow the users to upload their own items and documents and, due to our security concerns, this would not be available. He explained the issue with the volunteers sign ups and how it was affected due to our migration to the new server, but it has been corrected.

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## Board and Committee with No Report

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**Director-at-large-Alan Pitegoff AB4OZ**

**Director-at-large-Joanne AA3N**

**Immediate Past President-Dennis NC4DK**

**ARRL NC Section Manager-Karl W4CHX**

**W4DW/W4RNC TRUSTEE-Jeff, AC4ZO**

**Director-at-large-Robert K4WWR**

**Director-at-large-Joanne AA3N**

**Youth Director-Murray K4MHM**

**Public Service Director-John K3RHJ**

Minutes continued from the previous page

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## Old Business

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50<sup>th</sup> Anniversary of RARS is coming up in March and the board is going to make the event a little more special with special cake decorations and party decorations!

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## New Business

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## Additional Business/Comments/Announcements

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## Next Meeting

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3/19/2019, 2011 Ridge Road at 7:00pm

Meeting was adjourned at 8:52pm

Meeting Minutes taken and Submitted by Tara Goodwin W4TSW

# Minutes

## Raleigh Amateur Radio Society

### Board Members Meeting

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*Date | time* 03/19/2019 @ 7:00 pm | *Meeting called to order by* Carl Davis W8WZ

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#### In Attendance

7 Members

**Carl Davis - W8WZ**

**Alan Pitegoff - AB4OZ**

**Chuck Littlewood - K4HF**

**Richard Kroeger - N1FUA**

**Tom Lewis - N4TL**

**Tara Goodwin – W4TSW**

**Hank Montgomery - K4HM**

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#### Approval of Minutes

Quorum present but February minutes were not ready for approval.

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#### President Report-Carl W8WZ

Present; no report to give

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#### Vice President Report/Exciter Report-Tom N4TL

Tom reported that the presentation for April will be the Restoration of a Collins KWM-1 transceiver, by John Green (KX4P).

He mentioned he had a great picture of our founders from the meeting and is interested in submitting

Minutes continued from the previous page

it to the QST and will be partnering with Chuck (K4HF) on this project.

## Treasurer's Report-Greg KE4PAX

Greg was not present but he sent a report, that was read by Carl (W8WZ), which reported that we currently have 391 members, compared to 432 a year ago.

***For more detailed information regarding Greg's Treasurers report please contact KE4PAX***

## Secretary's Report -Tara W4TSW

Present; No Report

## Directors Reports

**Education Director-Carl W8WZ:** Carl reported that they had spring class dates set but the NC State space fell through causing the team to have to cancel the Spring Technician class. They are going to concentrate on getting the fall classes arranged.

**Field Day Chair-Bob W4TTX:** Not Present, but Carl (W8WZ) read his report stating that the field day team has official approval to use the Carroll farm again in June and he has about locked down the catering menu. There has been renewed interest with new participation now that we are going to try the separate tent layout this year.

**FM Repeater Chair-Chuck W3WZN:** Not Present but Carl (W8WZ) read a report that stated RTP is still without working AC system. Chuck reached out to Charlie Dhurst, who manages the building for the owners of the tower site Crown Castle regarding the AC issue, and Charlie has made Crown Castle aware of the issue, however they expect no solutions as the building only has one paying tenant. Chuck and Alan priced out some of the parts that would be needed to fix the building AC and the costs are over 600. No action to be taken at this time.

At the Bayleaf site the inside sill under AC was removed and painted. The doors to the building were painted also but, due to water damage, more work may need to be done. A new rain awning was installed above the AC unit and unknown blue solution, that had been sprayed on sides of building, was cleaned.

Minutes continued from the previous page

The team followed up with the insurance carrier for both liability and equipment replacement. Equipment policy is for only damages from wear and tear.

**RARSfest Chair-Tara W4TSW:** Tara reported that all is moving well with RARSfest and that the March meeting with the Fairgrounds was successful. They have received several more volunteers since the presentation at the member meetings and most details were under wraps at this time.

**ARRL Liaison-Chuck K4HF** Chuck mentioned that the ARRL is looking for more voices and comments on the proposed band privileges they are thinking of expanding to the Technician Class licensee. Hank (K4HM) mentioned there was a link to the comments page on the RARS website.

**Webmaster-Hank K4HM:** Hank reported he has updated the website calendar with some current local hamfests. He also mentioned he would be willing to take picture spreads, from special events, to add to the website. Hank also reported that he is looking for someone to take over as webmaster.

**Director-at-large-Alan Pitegoff AB4OZ:** Reported that he has heard on the radio that there are more people stating they wish members would reach out during and after the meetings and that created open dialogue to expand and add to our Directors at Large.

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## Non Reports

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**Director-at-large-Joanne AA3N:**

**Immediate Past President-Dennis NC4DK:**

**ARRL NC Section Manager-Karl W4CHX:**

**W4DW/W4RNC TRUSTEE-Jeff, AC4ZO:**

**Director-at-large-Robert K4WWR:**

**Director-at-large-Joanne AA3N:**

**Youth Director-Murray K4MHM:**

**Public Service Director-John K3RHJ:**

**Public Information Officer-Tara W4TSW:**

**NC QSO Party Chair-Marty W4MY:**

Minutes continued from the previous page

**Net Manager-Virginia NC4VA:**

**Food Service Chair-Richard N1FUA**

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## **Old Business**

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## **New Business**

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It has come to the attention of the board, from the FM Repeater Chair team, that we may need to look at our insurance policy and make some changes based upon how our coverage is currently arranged. The team is going to look deeper into this project and will have recommendations for the board to discuss soon.

There was an email sent to the board regarding RARS participation with the blind community. He had suggested the club reach out and invite the local blind community school to the RARSfest but, after discussion, the board thinks that this would not be the right event for this type of outreach. There will be discussion for possibly inviting them to our Field Day.

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## **Additional Business/Comments/Announcements**

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## **Next Meeting**

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4/16/2019, 2011 Ridge Road at 7:00pm

Meeting was adjourned at 8:30pm

Meeting Minutes taken and Submitted by Tara Goodwin W4TSW

# Minutes

## Raleigh Amateur Radio Society

### Board Members Meeting

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*Date | time* 04/16/2019 @ 7:00 pm | *Meeting called to order by* Carl Davis W8WZ

---

#### In Attendance

9 Members

**Carl Davis - W8WZ**

**Alan Pitegoff - AB4OZ**

**Chuck Littlewood - K4HF**

**Richard Kroeger - N1FUA**

**Tom Lewis - N4TL**

**Tara Goodwin – W4TSW**

**Hank Montgomery - K4HM**

**Virginia Enzor – NC4VA**

**Greg Seamster – KE4PAX**

2 Visitors

**Ken Latchum AD4GX**

**Mark Kilmer KM4JRH**

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#### Approval of Minutes

Quorum present February and March minutes were approved.

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#### President Report-Carl W8WZ

Present; no report to give

Minutes continued from the previous page

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## Vice President Report/Exciter Report-Tom N4TL

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Tom reported that the presentation for May will be the Radio Direction Finding, by Ruth Bromer, WB4QZG & Joseph Huberman, K5JGH

He also reminded the board that the May Exciter articles are due on May 4<sup>th</sup>.

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## Treasurer's Report-Greg KE4PAX

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Greg reported that we currently have 396 members. He mentioned we were off a couple of thousand but that would become more solvent once RARSfest was completed and the funds leveled back out. He also stated he would be sending out a new budget for the board to review prior to the upcoming vote in the membership meeting in June.

***For more detailed information regarding Greg's Treasurers report please contact KE4PAX***

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## Secretary's Report -Tara W4TSW

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Present; No Report

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## Directors Reports

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**Field Day Chair-Bob W4TTX:** Bob was not present but Carl mentioned that he did know band captains were working tirelessly on preparing their equipment and looking at spots on the farm. Greg (KE4PAX) stated he had sent the check for the social tent.

Chuck (K4HF) asked if he thought we should allow members to come and set up to test their rigs and the board decided to leave that up to Bob since he is the lead on this event.

**RARSfest Chair-Tara W4TSW:** Tara reported that the team is ready for RARSfest. She cleaned out the storage building with Mark (KM4JRH) and Alan (AB4OZ) of all the RARSfest items needed for the weekend event.

**Net Manager-Virginia NC4VA:** Virginia reported that the nets are going well and are fully staffed. She also mentioned that Alans 10m net was picking up new check-ins and also moving forward in a positive manner.

Minutes continued from the previous page

**ARRL Liaison-Chuck K4HF** Chuck reported that RARSfest would be fully staffed with the ARRL league members. He also mentioned that the FCC and ARRL have put out an option for anyone to comment on the new rules regarding vanity call signs.

**Webmaster-Hank K4HM:** Hank reported links to the above mentioned ARRL/FCC comments are on the website. He also noted that the ongoing search for assistance with the website has not been fruitful largely due to the need to be familiar with PHP, MySQL, and some JavaScript to maintain the current hand written site. Our hosting company, Deltaforce, will support most any Content Management System of our choice, but they were quick to point out that we would lose much of our tailor made functionality, and Amnon also noted that the most popular CMS today is Word Press which is a security nightmare because being the most popular CMS makes it the biggest target for hackers. Hank has no CMS experience and it would be a large learning curve so would not be a small task.

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## Non Reports

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**Director-at-large-Joanne AA3N:**

**Immediate Past President-Dennis NC4DK:**

**ARRL NC Section Manager-Karl W4CHX:**

**W4DW/W4RNC TRUSTEE-Jeff, AC4ZO:**

**Director-at-large-Robert K4WWR:**

**Director-at-large-Joanne AA3N:**

**Youth Director-Murray K4MHM:**

**Public Service Director-John K3RHJ:**

**Public Information Officer-Tara W4TSW:**

**NC QSO Party Chair-Marty W4MY:**

**Food Service Chair-Richard N1FUA**

**Education Director-Carl W8WZ:**

**FM Repeater Chair-Chuck W3WZN:**

**Director-at-large-Alan Pitegoff AB4OZ**

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## Old Business

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Carl reminded the club of the recommendation to go from insured to self-insured on our equipment.

Minutes continued from the previous page

This is due to not being able to successfully file a claim with our current equipment because of lack of paperwork. Chuck stated that the benefits did not outweigh the current cost of being insured.

Upon follow up discussion it was discovered the plan had already lapsed and we needed to decide to reinstate or to become self-insured at the Repeater Chairs' recommendation. A vote was taken and the decision to not reinstate our insurance was agreed upon.

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## New Business

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## Additional Business/Comments/Announcements

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## Next Meeting

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5/21/2019, 2011 Ridge Road at 7:00pm

Meeting was adjourned at 8:15pm

Meeting Minutes taken and Submitted by Tara Goodwin W4TSW

# Minutes

## Raleigh Amateur Radio Society

### Members Meeting

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*Date | time* 05/14/2019 @ 7:30pm | *Meeting called to order by* Carl Davis (W8WZ)

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#### In Attendance

The monthly membership meeting of the Raleigh Amateur Radio Society met at the Ridge Road Baptist Church in Raleigh. The meeting was called to order by President Carl Davis (W8WZ), at 7:30 pm.

The pledge of Allegiance was recited

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#### Approval of Minutes

A quorum was not present; the March minutes were not approved.

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#### Continuing Announcements

The RARS dinner takes place monthly on the first Tuesday (next: June 4<sup>th</sup>) at 6:30p.m. at the Golden Corral; 6129 Glenwood Ave, Raleigh.

The next board meeting, which is open to all our members, will be Tuesday June 18<sup>th</sup> at 7pm in the church conference room.

Tonight's after-meeting gathering, for any who are interested, will be at the Rudinos at 3101 Edwards Mill Rd, Raleigh.

A new ham/Elmer's meeting with new hams, and anyone interested, takes place before each membership meeting at 6pm at the Ridge Road church and presented by Tadd (KA2DEW)

Minutes continued from the previous page

Prior to this meeting they had roughly a dozen attendees and they were able to reach various nearby states with a 40m dipole.

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## Door Prizes

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There were 8 winners in our door prize drawing.

Mike Wolfe (K4MPW), Richard Kroeger (N1FUA), Bill Mars (AK4BL), Mike Thurman (KB7NLA), Mike Butler (K4MBX), Dick Martin (WW4NC), Charles Strickland (WA4OSS), Al Bondoux (KM4USL)

**Congratulations to our May Winners; you can find their picture on our Facebook page**

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## Vice President Report/Exciter Chair-Tom N4TL

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Tom reported that the presentation for June will be “Field Day Presentation” by Bob (W4TTX)

He also mentioned that the hoped the club enjoyed the last issue of The Exciter and thanked the members for their submissions.

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## Treasurer’s Report-Greg KE4PAX

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Greg was not present; no report.

**For those interested in official Treasurer report can contact Greg (KE4PAX)**

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## Secretary’s Report-Tara W4TSW

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Present but No Report

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## Board and Committee Reports

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**Education Director-Carl W8WZ** Carl (W8WZ) announced that the education team has scheduled their fall class with the wake county schools on Wednesday evenings with several RARS members volunteering to teach various segments. These classes will have a broader scope of advertising, thanks mainly to the school marketing outreach, along with online sign ups. Spring classes will be held on the weekends and more information will be coming later in the year.

Minutes continued from the previous page

**Field Day Chair - Bob W4TTX** – Bob reminded the club that Field Day is June 22<sup>nd</sup>-June 23<sup>rd</sup> but that the club will begin set up Friday afternoon on the 21<sup>st</sup>. This event will once again be held at the Carroll Farm in Apex and the information is on the RARS website. There will be more detailed information forthcoming at the June Field Day presentation.

**RARSfest Chair-Tara W4TSW** – Tara was not present but Carl (W8WZ) announced that all went well with the RARSfest event and thanked the membership for volunteering and supporting the fest.

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## Board and Committee with No Report

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**Public Service** - John K3RHJ

**Food Service** - Richard N1FUA

**ARRL Liaison** - Chuck K4HF

**Youth Director** - Murray K4MHM

**Past President** - Dennis NC4DK

**ARRL Section Manager** - Karl W4CHX

**Webmaster** - Hank K4HM

**W4DW/W4RNC Trustee** - Jeff AC4ZO

**Director at Large** - Alan AB4OZ

**Director at Large** - Joanne AA3N

**Net Manager** - Virginia NC4VA

**FM Repeater Chair** – Chuck W3WZN

**Public Information Officer** – Tara W4TSW

**NCQSO Party Chair** - Marty W4MY

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## Old Business

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## New Business

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Minutes continued from the previous page

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## **Additional Business/Comments/Announcements**

Six people arrived to the VE testing session, prior to the meeting, and at the end there were 2 new Extras, 1 New Technicians, and 3 New General licensee's.

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## **Next Meeting**

07/09/2019, 2011 Ridge Road at 7pm

Meeting was adjourned at 8:38 pm

Meeting Minutes taken and Submitted by Tara Goodwin W4TSW